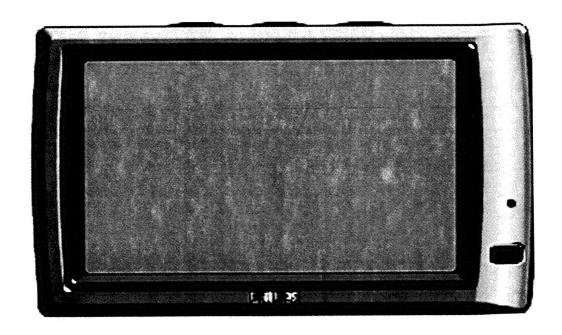


22SY409/00 22SY409/17

ServiceManua

12 V ⊖ ▶



Contents

Specification, Connector block Page 2 Monitor control keys Page 3 Page 4 Disassembling housing Disassembling chassis Page Page 6 **Exploded View** Adapter cable Page 7 Page 8, 9 Alignments Sensor PWB Page 10 Circuit diagram Page 11 Page 12 Main PWB A-side, PAL version Main PWB B-side, PAL version Page 13 Main PWB A-side, NTSC version Page 14 Main PWB B-side, NTSC version Page 15

IC's and measurements Page 16, 17, 18, 19, 20 Partslist Page 21, onwards

Specifications

Power supply 9 - 16 V max. 1 A Current consumption Operating temperature -20 to +70° C

display OFF Display control signal (pin 12) open input:

0 - 2.5 V: display ON, navigation video mode display ON, VCR video mode > 3.5 V

Navigation video f = 60 Hz

RGB lines with 75 Ohm input resistor and nom. $\pm 0.7 \ V_{pp}$

negative CSYNC=CSYNCN (TTL-level) impulse

VCR video CVBS video input with 75 Ohm input resistor and nom. +0.7 Vpp

for the picture information and $-0.3 V_{pp}$ for the CSYNCN information

VCR input jack 3.5 mm female mini jag

front = video mid = audio back= GND

IR receiver output low level: < 0.5 V

high level: > 2.5 V

max. 4 (R+G+B) for display ON, no neighbours, no flickering Pixel error limitation

max. 8 (R+G+B) for display OFF, no neighbours, no flickering

Audio bandwith 300 - 8000Hz

Connector block



- VCR Audio ext.
- Audio Signal shield 2
- 3 Video Power GND
- 4 Reg
- 5 Green
- 6 Blue
- 7 Display Gnd
- **CSYNCN**

- Display Gnd
- VCR Video ext. 10
- \Box Voice line in
- 12 Disp. On/Off/Video
- 13 Remote Contr. Gnd 14 Remote Contr. In
- 15 Display +
- 16 Display +

connector.CDR CL 210699

Monitor control keys







menu.CDR

For more detailed information refer to the Directions for use.

NAVIGATION MENU

- Volume - Brightness

- Display mode

VIDEO MENU
- Volume

- Brightness - Colour

- Contrast (for RGB),Tint (for NTSC)

- Display mode

Menu button:

Switches mode dependend menu on, selects menu item, switches menu off.

Menus are switched off automatically within 5 sec. (3 sec. for setup menu) if no key is pressed.

SETUP MENU

- Loudspeaker

- Brightness control

- Mounting position

- button:

Decreases the value of selected item resp. toggles between the possible settings.

+ button:

Increases the value of selected item resp. toggles between the possible settings.

NAVIGATION MODE MENU

Volume:

If last setting is between step 31 and step 15, system will start with default setting15.

If last setting is between step 0 and step 15 the setting remains at system start.

Step Volume [dB] 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16......29 30 31 -80 -60 -55 -50 -45 -40 -35 -30 -28 -26 -24 -22 -20 -18 -16 -15 steps of one 0 MUTE

Volume can be adjusted without entering the OSD menu before: Press the + or - keys, volume menu appears automatically.

Brightness:

Depending on the ambient light 'Brightness Day' or 'Brightness Night' appears and can be adjusted.

Display Mode:

Normal (4:3) or Full Screen (16:9) display can be selected.

VIDEO MODE MENU

Volume:

Same as in Navigation mode menu.

Brightness:

Same as in Navigation mode menu.

Colour:

Intensity of colour adjustable.

Contrast/Tint:

PAL version 22SY409/00, 'Contrast' appears for adjustment.

NTSC version 22SY409/17, 'Tint' appears for adjustment.

Display Mode:

5 different display modes can be selected: Normal, Full screen, Cinema, Wide 1, Wide 2.

SETUP MENU (push all three keys simultaneously to enter)

Brightness control:

In Auto mode the ambient light conditions are considered for brightness adjustment.

In Auto Off mode brightness adjustment covers the full brightness range.

Mounting Position:

Low or High. Brightness adjustment behaves different dependend on the selected mode

(other step sizes, other levels).

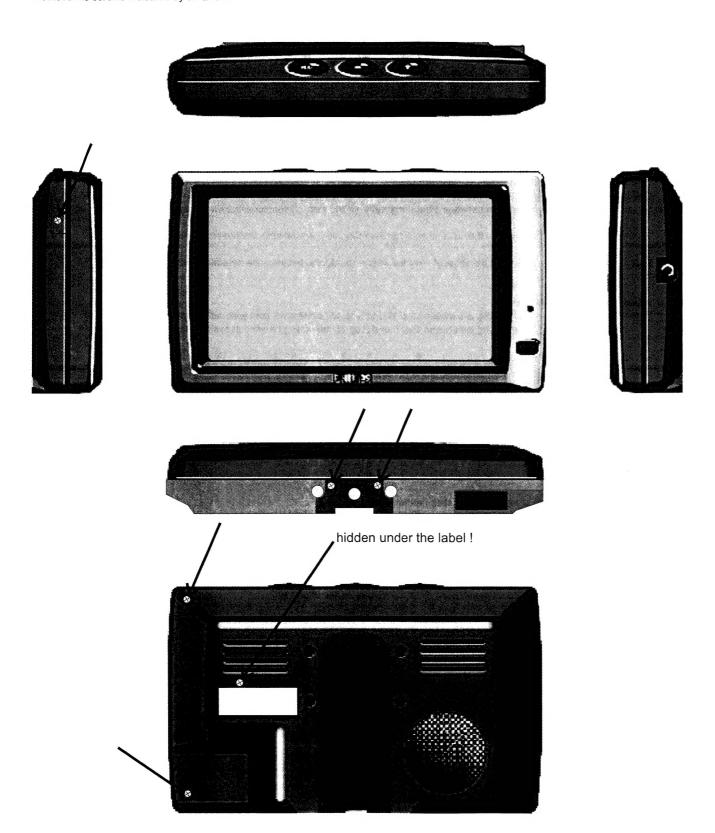
Loudspeaker:

Switch internal Loudspeaker ON or OFF. If switched OFF it will automatically switched ON again when Volume

menu is selected.

Disassembly of housing

Remove the screws indicated by an arrow.



Disassembly of chassis

Removing the LCD panel:

- Take out flex foil from CP4 (ZIF connector)
- Take out connector from CP6
- Desolder black grounding lead

Removing the sensor print:

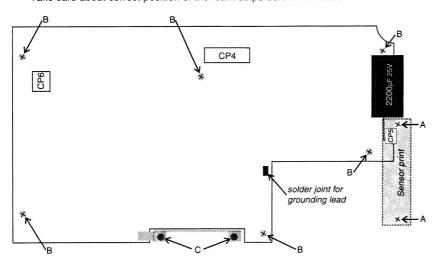
- Take out 4-fold connector from CP5
- Remove screws 'A'

Removing the LCD panel:

- Remove screws 'B' and 'C'
- Sever the glued 2200µF capacitor from the back cover

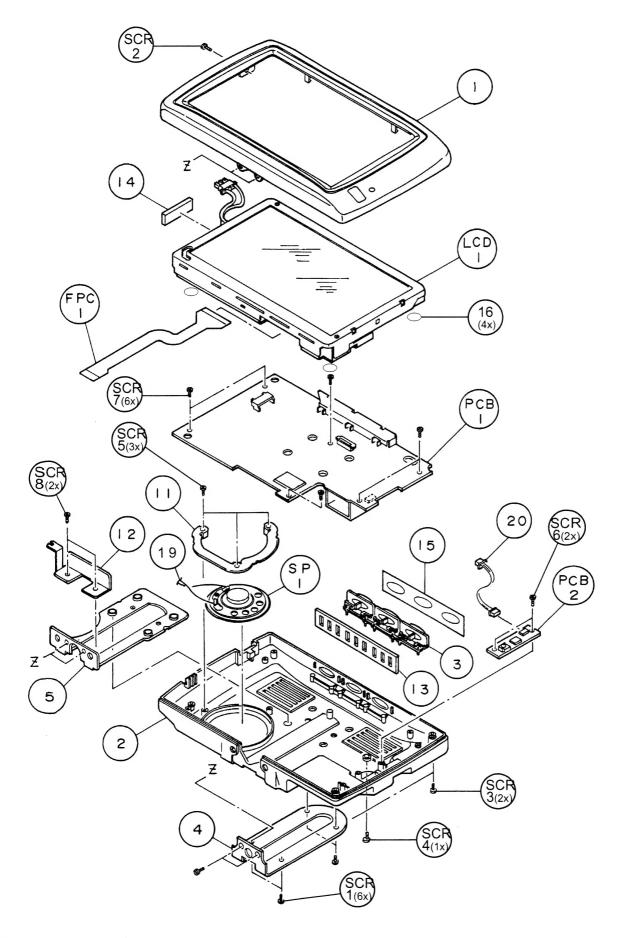
Removing the LCD panel:

- Fix the 2200µF capacitor with glue to the back cover
- Take care about correct position of the foam stripe below the knobs





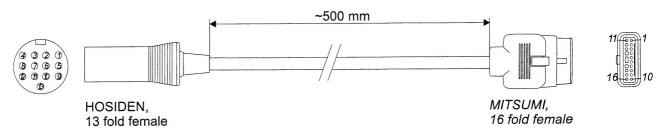
Exploded view

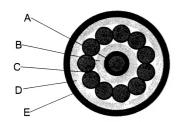


Adapter cable

In case a 4:3 monitor (22SY402) should be replaced by the 16:9 monitor (22SY409) use the adapter cable described below.

Service code number: 3112 310 26291





A= grey 0,22 mm ² B= inner shield

C= 11 x 0,22 mm 2; colours:

D= outer shield E= Cover black PVC light blue,dark green,black,violet, dark blue, white, pink, red, light green, orange, yellow.

Hosiden Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 13	Mitsumi Pin 12 Pin 14 Pin 5 Pin 6 Pin 2 Pin 8 Pin 4 Pin 7 Pin 11 Pin 15 Pin 16 Pin 10 Pin -	Colour white light blue dark green dark blue inner (grey) shield violett light green black grey red orange yellow pink	Function Display mode ON/OFF/VIDEO Remote signal Video GREEN Video BLUE Line out - Video CSYNC Video RED Video GND Line out + Display power + Display power + Ext. Video Brightness control
		•	
Shield	Pin 1	outer shield	Audio GND
Shield	Pin 3	outer shield	Video GND
Shield	Pin 9	outer shield	Display GND
Shield	Pin 13	outer shield	Remote GND
Shield	Shield	outer shield	Display housing GND

Alignments

Conditions:

Connect Navigation computer (22SY596) to monitor.

Adjust supply voltage to +14 V.

Connect PAL generator (for version /00) respectively NTSC generator (for version /17) to AV jack.

Set PAL resp. NTSC composite signal to video black and white 5 - step wave form, 0.7 Vpp.

1. Video Alignment

Connect 10 K resistor between IC7, pin 22 and GND.

Connect frequency counter parallel to the 10 K resistor.

Connect collector of Q29 to +5.0 V (DC).

Set NTSC generator to NO SIGNAL.

- Align CT1 for frequency 4.433619 MHz +/- 100 Hz for PAL version.

3.579545 MHz +/- 100 Hz for NTSC version.

2. Pre-alignment for the LCD module

Align:	Poti	Value	Point of measurement
	SVR 2	1.64 V	IC14, pin 5
	SVR 3	1.35 V	IC14, pin 27
	SVR 4	2.75 V	IC14, pin 26
	SVR 5	2.18 V	IC14, pin 38
	SVR 6	2.41 V	IC14, pin 39
	SVR 7	2.12 V	IC14, pin 40
	SVR 8	2.08 V	IC14, pin 41
	SVR 9	2.47 V	IC14, pin 42
	SVR10	2.38 V	IC14, pin 43
	SVR11	1.98 V	CP 4, pin 13

Voltages are DC to GND with a tolerance of +/- 0.02 V

Locations:		
SVR 11 🗌		
SVR 5		
SVR 6		SVR 3
SVR 7	IC 14 IR3Y26A	SVR 4
SVR 8		
SVR 9	SVR 1 SVR 2	
SVR 10 🔲	SVIII SVIIZ	
	IC 8	

MM1231

locations.CDR CL 210699

IC 7

M52045FP

CT 1

3. LCD alignment

Set brightness control to AUTO OFF (see monitor control keys - setup menu).

Connect oscilloscope to GREEN (CP4, pin 17)

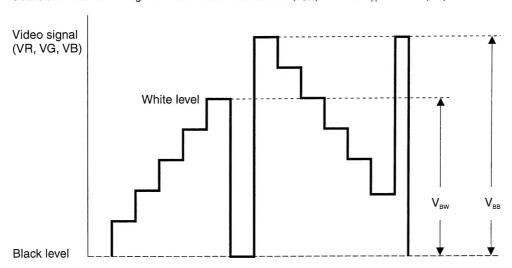
RGB AMP: Align SVR 7 for black to black level (V_{BB}) 4.0 V_{pp} +/- 0.1 V (AC) CONTRAST: Align SVR 2 for black to white level (V_{BW}) 3.8 V_{PP} +/- 0.1 V (AC)

Connect oscilloscope to RED (CP4, pin 18)

SUB BRIGHT: Align SVR 6 for black to black level (V_{BB}) 4.0 V_{pp} +/- 0.1 V (AC) CONTRAST R: Align SVR10 for black to white level (V_{BW}) 3.8 V_{pp} +/- 0.1 V (AC)

Connect oscilloscope to BLUE (CP4, pin 19)

SUB BRIGHT: Align SVR 5 for black to black level (V_{BB}) 4.0 V_{pp} +/- 0.1 V (AC) SUB CONTRAST B: Align SVR 9 for black to white level (V_{BW}) 3.8 V_{pp} +/- 0.1 V (AC)

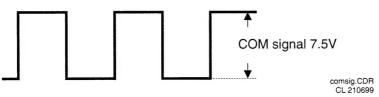


videosig.CDR CL 210699

Brightness alignment:

Set mode to VIDEO.

Align SVR 1 for COM signal at CP4, pin 13
 7.5 Vpp +/- 0.2 V (AC).



Horizontal position alignment:

Set display mode to FULL SCREEN (see monitor control keys - video mode menu). Set video generator to TEST PATTERN.

Align 'H-POS' at the backside of the LCD panel until picture is in the center of the LCD.

H-SYNC frequency alignment:

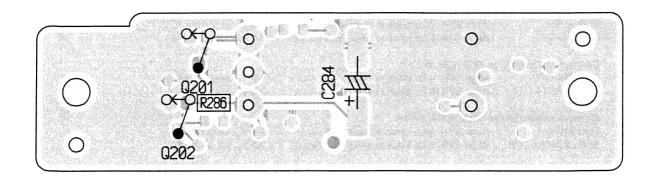
Connect frequency counter between CP4, pin 1 and GND. Set video generator to NO SIGNAL.

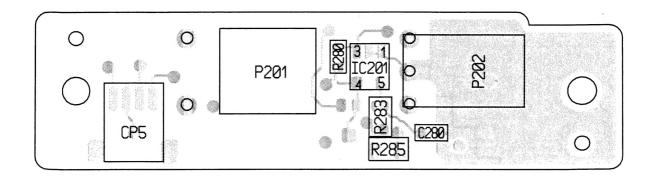
• Align 'VCO' at the backside of the LCD panel for frequency 15.73 KHz +/- 0.03 KHz.

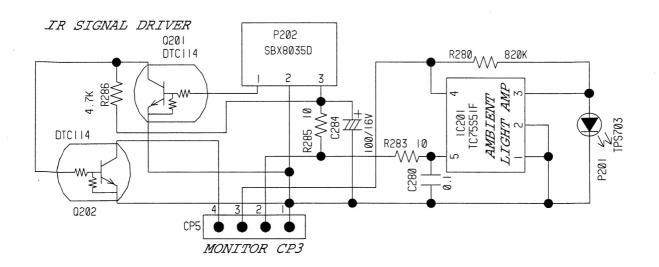
Check:

The ready aligned monitor should be compared with a reference set. In case of differences in color, tint and brightness align SVR3 again slightly.

Sensor PWB







Q201- DTC114

B: 1.9 V C: 0 V

E: 0 V

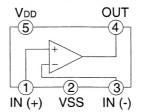
Q202- DTC114

B: 0 V

C: 4.2 V

E: 0 V

IC 201 - TC75S51F



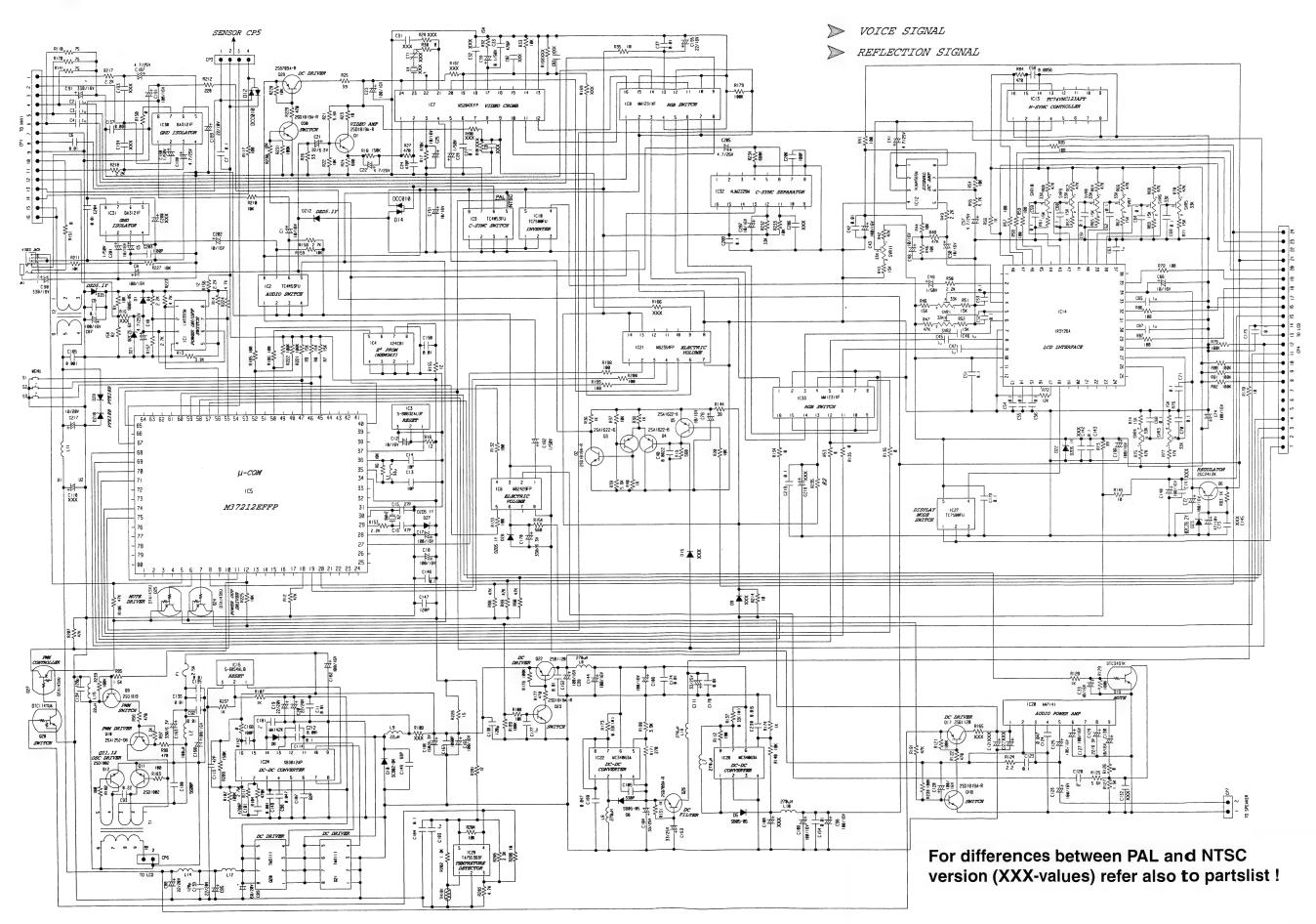
1:0 V 2:0 V

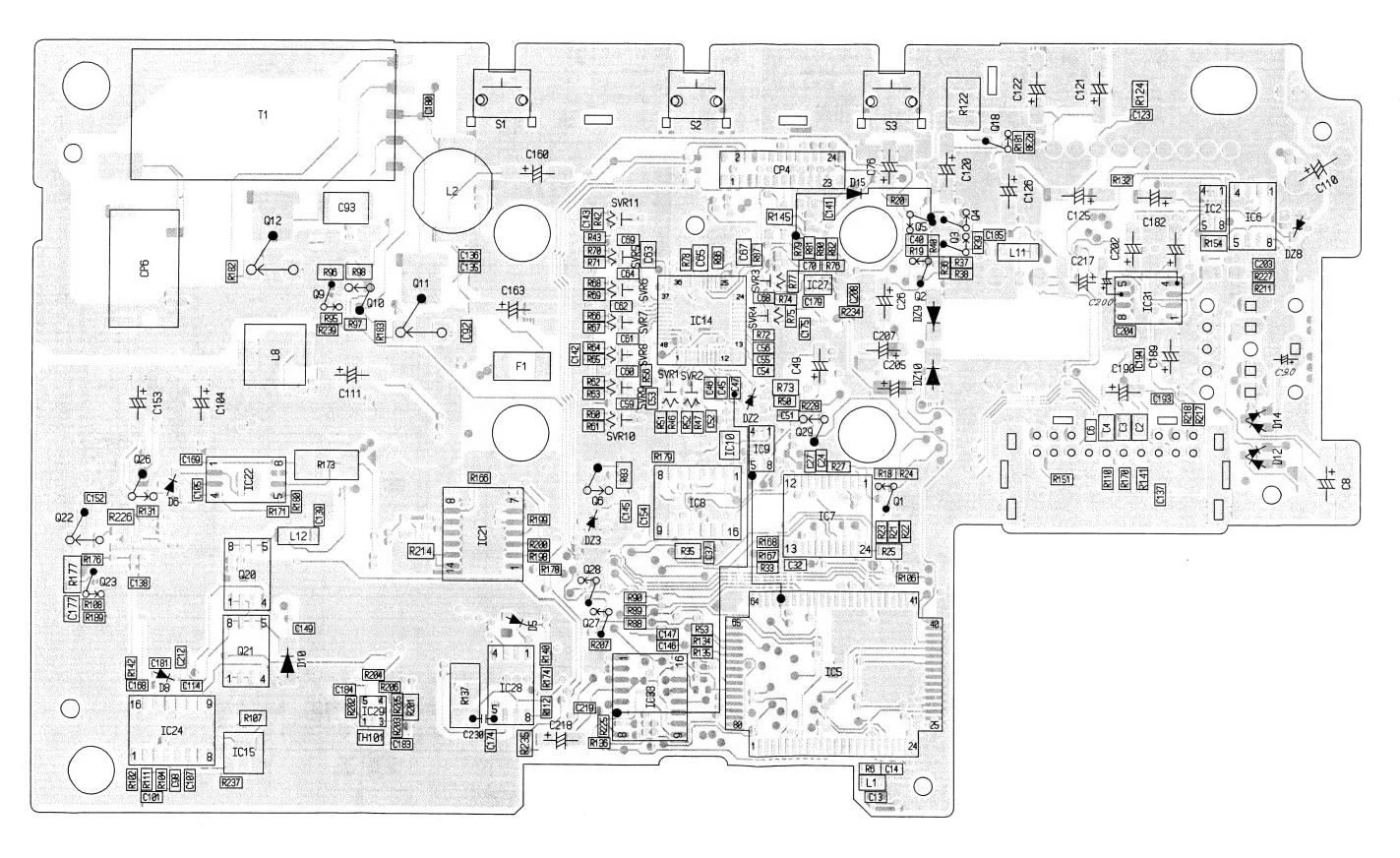
3: -0.29 V

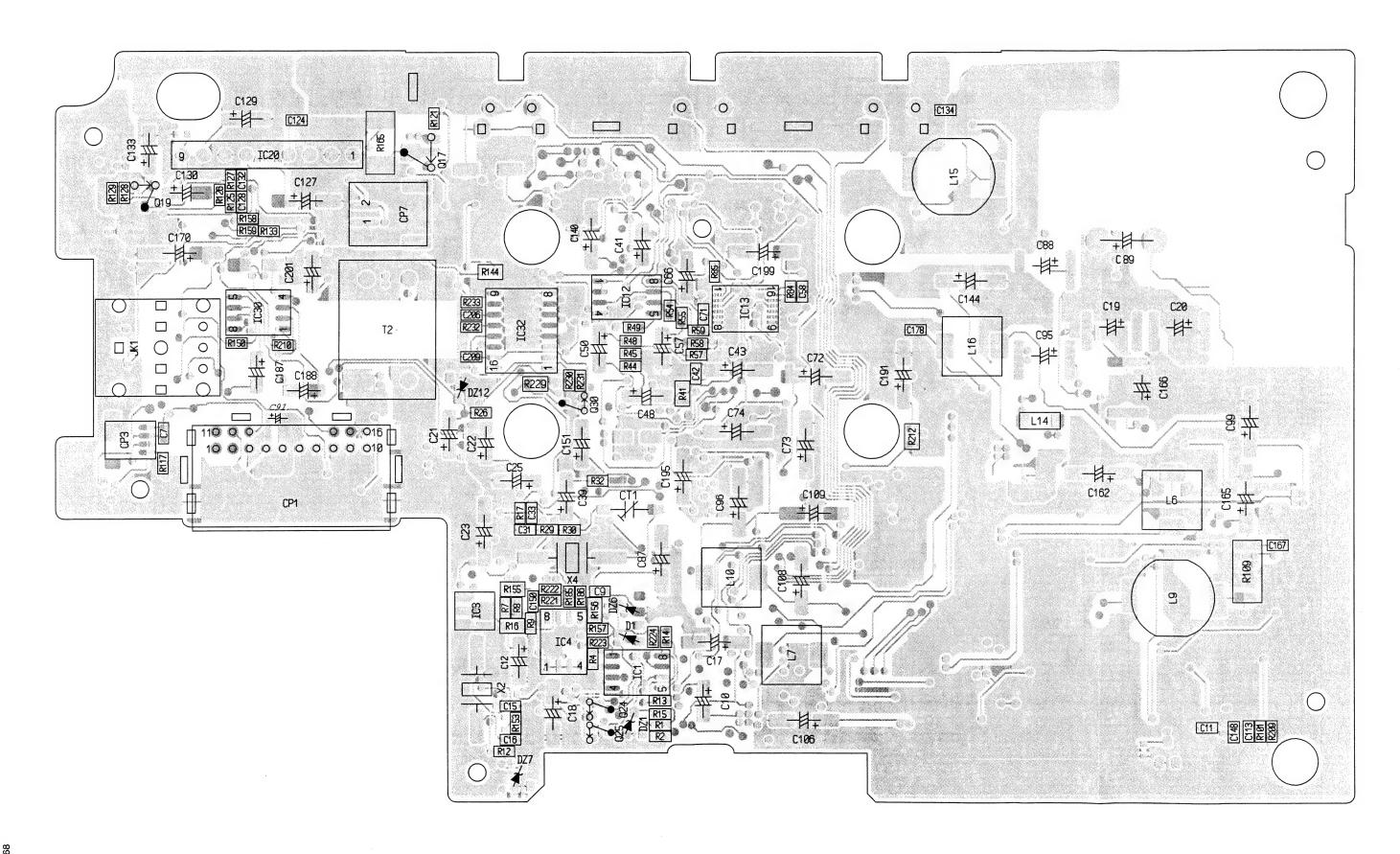
4: 5.1 V

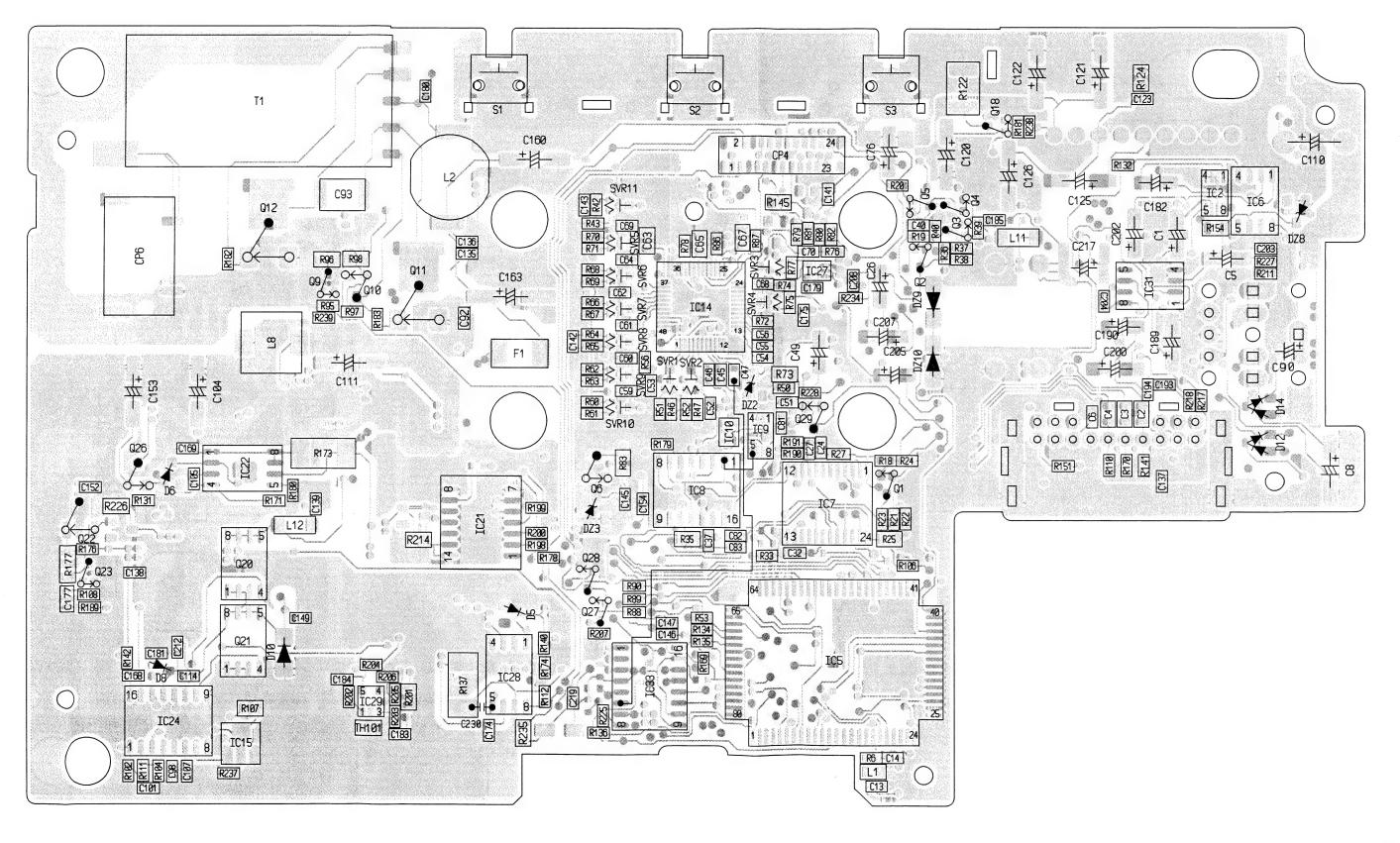
5: 5.1 V

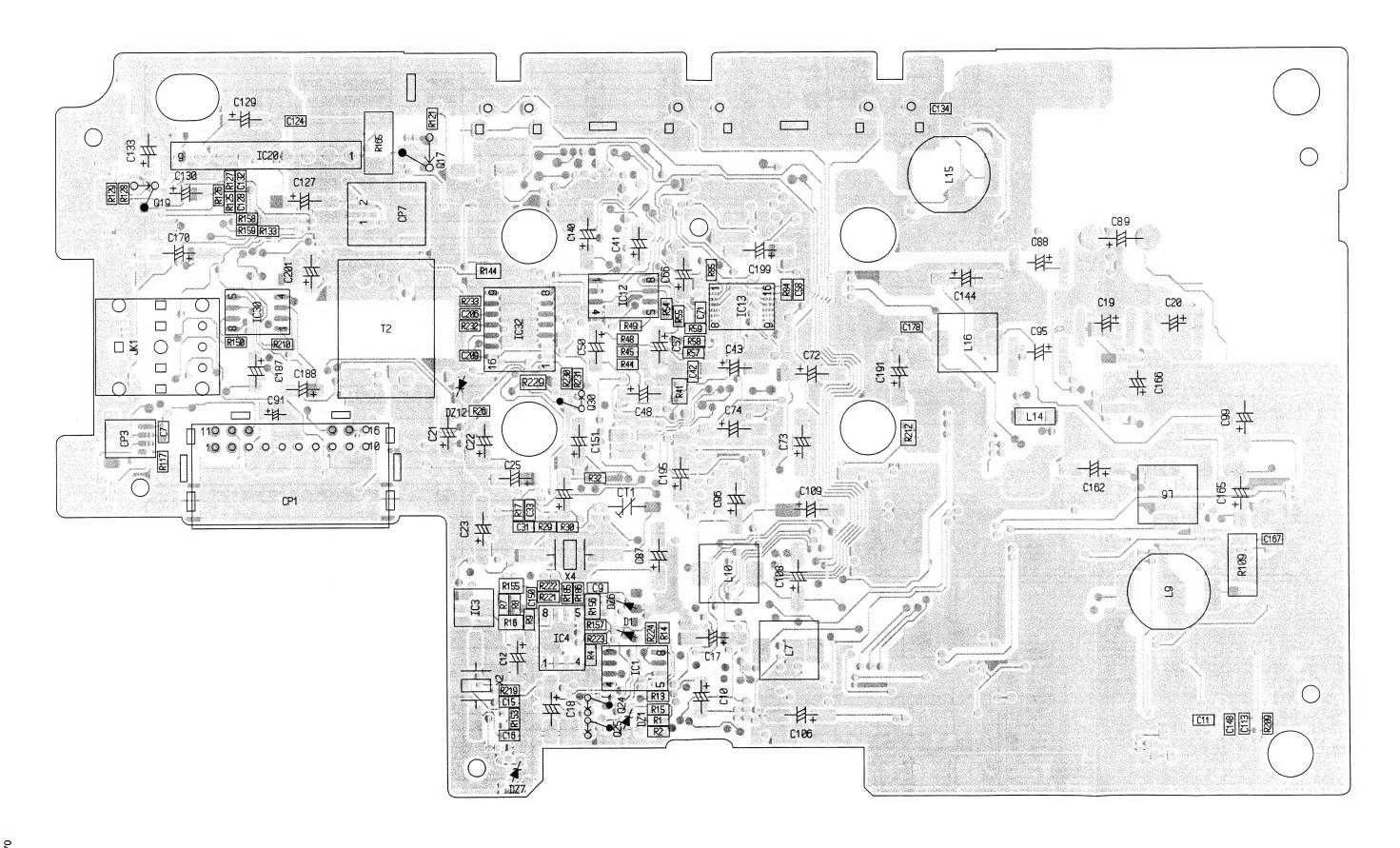
Circuit diagram



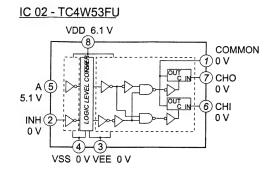


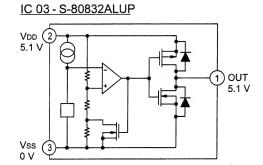


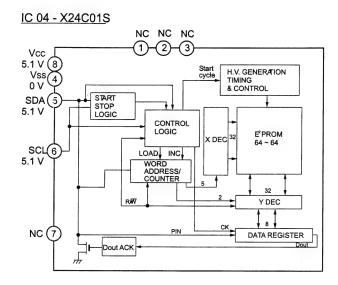




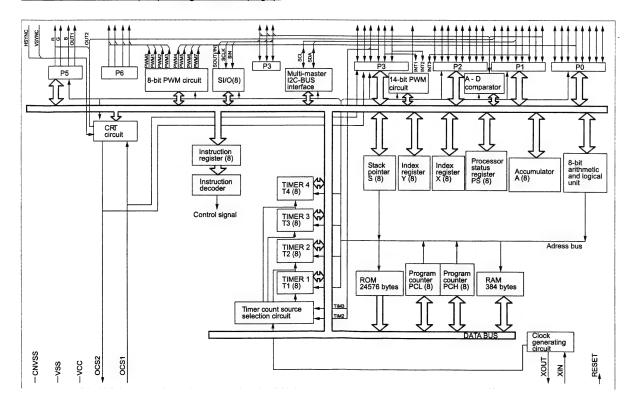
Values are DC to GND, while monitor is in navigation mode







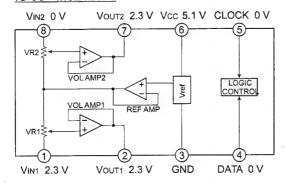
IC 05 - M37212EFFP (for pinning see next page)



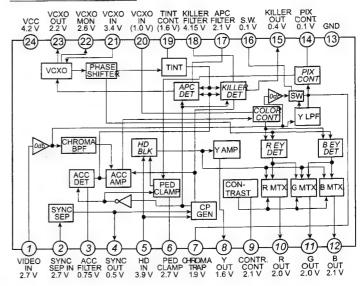
PIN	PORT	1/0	SIGNAL	DESCRIPTION
1-4	NC			
5	P0	1	VIDEO	VIDEO IN
6	P0	0	NAVI	NAVI/VIDEO
7	P0	0	PWR4	POWER ON/OFF
8	P0	0	MODS	LCD DISPLAY MODE
9	NC			
10	P4	ı	TEMP	SENSOR OF TEMP
11	P4	1	BRIIN	BRIGHTNESS IN
12	P4	0	B-OUT	BACK LIGHT CONTROL
13-17	NC			
18	P2	1		INITIAL PORT
19	P2	1	DI	DIA CONVERTOR CORRESPONDENCE PORT
20	P2	i	CLK	DIA CONVERTOR CORRESPONDENCE PORT
21-26	NC		OLIK	DIA CONVENTION CONTREST ON DENGE 1 CHT
27	P2	0	LD	D/A CONVERTOR CORRESPONDENCE PORT
28	CNVSS			GND
29	XIN	ı	XIN	MAIN CLOCK INPUT
30	XOUT	0		
		0	XOUT	MAIN CLOCK OUTPUT
31	VSS			GND
32-33	NC			
34	VCC		VCC	5V +/- 10%
35	P3	0	OSC2	OSCILATOR OUT FOR OSD
36	P3	1	OSC1	OSCILATOR OUT FOR OSD
37	RESET	1	RESET	RESET INPUT
38-39	NC		,	
40	P3	1	VIDEO OUT	VIDEO MODE OUTPUT
41-44	NC			
45	P1	1	K1	MENU KEY IN
46	P1	I	K2	+ KEY IN
47	P1	1	K3	- KEYIN
48-49	NC			
50	P1		SDA	EEPROM CORRESPONDENCE PORT
51	NC			
52	P1		SCL	EEPROM CORRESPONDENCE PORT
53-54	NC			
55	P0	1	PWR 2	NAVI/VIDEO/PWR OFF
56	P0	1	PWR 1	NAVI/VIDEO/PWR OFF
57	P0	0	MODN	LCD DISPLAY MODE
58	P0	0	MODW	LCD DISPLAY MODE
59	P2	0	MUTE	MUTE OUTPUT FOR AUDIO
60	P2	0	MOD-L	LCD PAL/NTSC SWITCH
61-64	NC			
65	P2	0	SOUT	ELECTRIC VOL. CORRESPONDENCE PORT
66	NC			
67	P2	0	SCLK	ELECTRIC VOL. CORRESPONDENCE PORT
68	P5	0	BLK	OSD BLACKING OUT
69	P5	0	В	OSD BLUE OUTPUT
70	P5	0	G	OSD GREEN OUTPUT
71	P6	0	R	OSD RED OUTPUT
72-73	NC			
74	HSYNC	ı	HSYNC	H-SYNC INPUT
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,
75	VSYNC	ı	VSYNC	V-SYNC INPUT

PCS 92 371

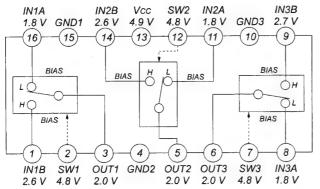
IC 06 - M62429FP



IC 07 - M52045FP-601

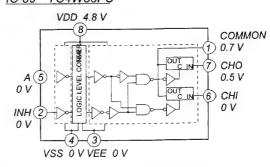


IC 08 - MM1231



IC 09 - TC4W53FU

5 Vcc 4.8 V



IC 12 - NJM4565M

8 Vcc 12.9 V

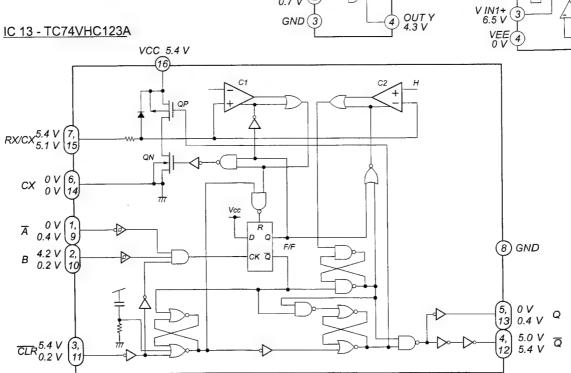
6 V IN2-6.5 V

5 V IN2+ 6.5 V

V OUT2 6.5 V

V OUT1 (1

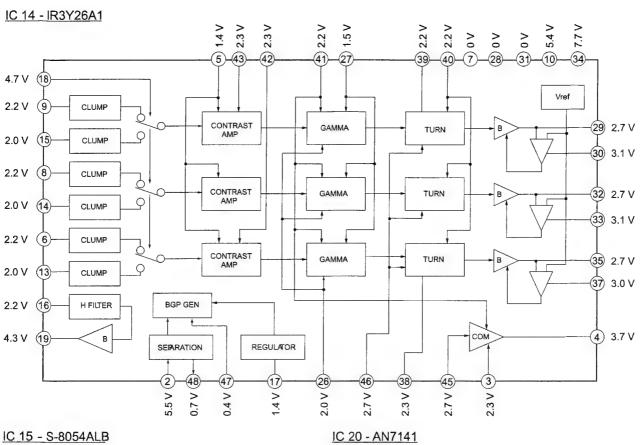
V IN1-6.5 V

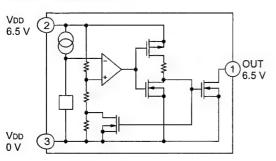


IC 10 - TC7S00FU

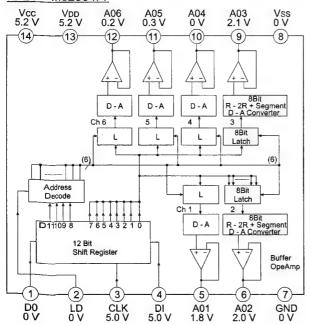
1N B (1

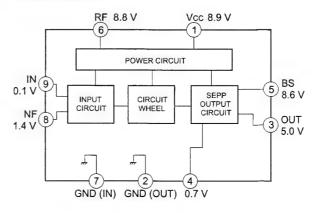
IN A 0.7 V



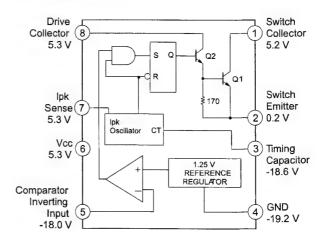


IC 21 - M62354FP

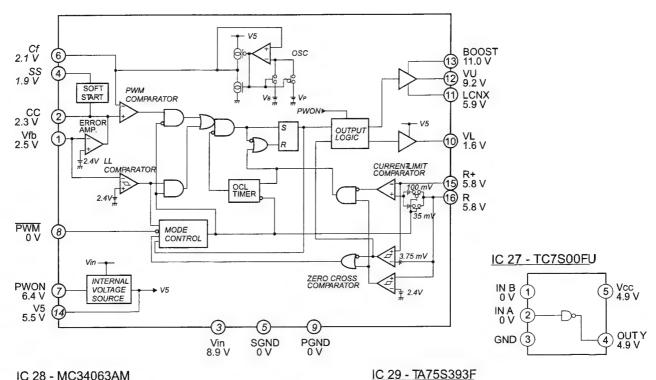




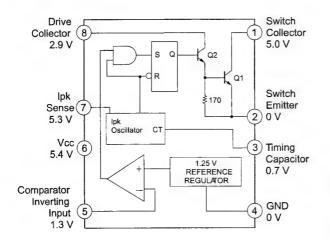
IC 22 - MC34063AM



IC 24 - SB3012AP

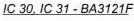


IC 28 - MC34063AM



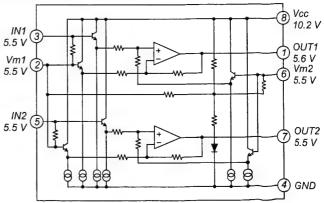
5.1 V 2.8 V (4)

0 V



(1)

1.1 V

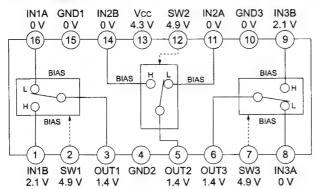


(3)

3.0 V

IC 32 - NJM2229M: SEE NEXT RGE

IC 33 - MM1231



IC 32 - NJM2229M	Q 01 - 2SD1819A-R	Q 02 - 2SD1819A-R
1: 0.0 V 9: 0.0 V	B: 2.6 V	B: 0.7 V
2: 2.2 V 10: 4.5 V	C: 4.1 V	C: 0.0 V
3: 2.4 V 11: 0.4 V 4: 0.0 V 12: 5.1 V	E: 2.0 V	E: 0.0 V
5: 4.5 V 13: 0.0 V	0.000014000.0	0.04.0044000.0
6: 2.6 V 14: 4.5 V	Q 03 - 2SA1622-6	Q 04 - 2SA1622-6
7: 1.9 V 15: 5.1 V	B: 1.7 V	B: 4.0 V
8: 0.0 V 16: 0.0 V	C: 0.7 V E: 2.3 V	C: 0.0 V E: 2.3 V
	2. 2.0 V	L. 2.0 V
Q 05 - 2SA1622-6	Q 06 - 2SC2412K-R	Q 09 - 2SD1819A-R
B: 4.9 V	B: 8.3 V	B: 0.7 V
C: 4.0 V	C: 13.7 V	C: 0.0 V
E: 4.8 V	E: 7.6 V	E: 0.0 V
Q 10 - 2SA1252-D6	Q 11 - 2SD1802-T	Q 12 - 2SD1802-T
B: 0.5 V	B: 0.3 V	B: 0.2 V
C: 0.6 V	C: 5.4 V	C: 5.4 V
E: 1.2 V	E: 0.0 V	E: 0.0 V
Q 17 - 2SB1120-G	Q 18 - 2SD1819A-R	Q 19 - DTC343TK
B: 12.4 V	B: 0.7 V	B: 0.0 V
C: 13.2 V E: 13.2 V	C: 0.0 V	C: 0.0 V
E. 13.2 V	E: 0.0 V	E: 0.0 V
Q 20 - TM3111	Q 21 - TM3111	Q 22 - 2SB1120-G
1: 5.9 V 5: 8.9 V	1: 0.0 V 5: 5.9 V	B: 5.4 V
2: 5.9 V 6: 8.9 V	2: 0.0 V 6: 5.9 V	C: 6.0 V
3: 5.9 V 7: 8.9 V	3: 0.0 V 7: 5.9 V	E: 6.0 V
4: 9.5 V 8: 8.9 V	4: 1.6 V 8: 5.9 V	
Q 23 - 2SD1819A-R	Q 24 - DTA143XU	<u>Q 25 - DTA143XU</u>
B: 0.6 V	B: 0.0 V	B: 5.0 V
C: 0.0 V E: 0.0 V	C: 5.0 V E: 5.0 V	C: 0.0 V E: 5.0 V
E. 0.0 V	L. 5.5 V	L. 0.0 V
<u>Q 26 - 2SB709A-R</u>	Q 27 - DTA143XU	Q 28 - DTC114YUA
B: -18.2 V	B: 0.0 V	B: 2.8 V
C: -17.4 V	C: 5.1 V	C: 0.0 V
E: -19.2 V	E: 5.1 V	E: 0.0 V
<u>Q 29 - 2SB709A-R</u>	<u>Q 30 - 2SD1819A-R</u>	
B: 4.1 V	B: 0.7 V	
C: (4.9 V)	C: 0.0 V	
E: 5.0 V	E: 0.0 V	

Note:

Only those parts which have a (12nc) number are service parts. The other parts are mentioned for completeness purpose only!

Parts	list		C009	Ceramic 0.1 U Z 16V
			C010	Elect 4.7 U M 25V
Only par	ts with service code r	number are available as spares.		Ceramic 0.01 U K 50V
			C011	
PACKI	NG PARTS		C012	Elect 10 U M 16V
1 AQIA	to i Airio		C013	Ceramic 10P D 50V
		Inner carton	C014	Ceramic 10P D 50V
		Pad, plain	C015	Ceramic 27P J 50V
		•	C016	Ceramic 47P J 50V
		Pad, plain	C017	Elect 100 U M 16V
		Poly cover, 220x250	C018	Elect 100 U M 16V
		Label, carton	0010	
			C019	OS-solid 22 U M 20V
			C020	OS-solid 22 U M 20V
CABIN	ET PARTS			Elect 22 U M 6.3V
			C021	
1	9965 000 00243	Assy, cabinet	C022	Elect 4.7 U M 25V
2	9965 000 00244	Cabinet, bottom	C023	Elect 100 U M 16V
3	9965 000 00245	Button	C024	Ceramic 470P K 50V
4	9965 000 00246	Bracket-M, set, A, cut	C025	Elect 10 U M 16V
			C026	Elect 1 U M 50V
5	9965 000 00247	Bracket-M, set, B, in	C027	Ceramic 0.1 U Z 16V
SCR1	9965 000 00248	SCR 2x6 Bracket-M, set, A-B	C031	Ceramic 100P J 50V
SCR2	9965 000 00249	SCR S-TPG BIN 2x6 cabinet		
SCR3		SCR S-TPG PAN 2.6x8	NTSC:	Ceramic 180P J 50V
		cabinet	C032	Ceramic 0.1 U Z 16V
SCR4		SCR S-TPG PAN 2.6x4	NTSC:	Ceramic 0.1 U K 50V
	9965 000 00250	Label, type		
			C033	Ceramic 470P K 50V
NTSC:	9965 000 00705	Label, type	C037	Ceramic 0.01 U K 50V
14100.	3300 000 007 00	Labor, typo	C039	Elect 0.1 U M 50V
OULAGE	NO DADTO MECH	ANICAL	C040	Ceramic 2200P K 50V
CHASS	SIS PARTS MECH	ANICAL	C041	Elect 4.7 U M 25V
		D 1 . F	C042	Ceramic 0.01 U K 60V
11		Bracket-E, speaker	C043	Elect 100 U M 16V
SCR5		SCR S-TPG PAN 2x5		
		speaker	C045	Ceramic 1 U Z 16V
		Sheet, LCD		Ceramic 1 U Z 16V
		Sheet, LCD	C046	
SCR6		SCR S-TPG 2x5 sensor PCB	C047	
SCR7		SCR S-TPG PAN 2x5	C048	Elect 10 U M 16V
12	9965 000 00251	Protector	C049	Elect 1 U M 50V
SCR8	9965 000 00252	SCR PAN PCS 2x2	C050	Elect 10 U M 16V
	9965 000 00252	Cushion, button	C051	Ceramic 0.1 U Z 16V
13			C052	Ceramic 0.1 U Z 16V
14	9965 000 00254	Cushion, LCD side	C053	Ceramic 0.1 U Z 16V
			C054	Ceramic 0.1 U Z 16V
16	9965 000 00255	Cushion, LCD rear		
		Sheet, LCD	C055	Ceramic 0.1 U Z 16V
		Sheet, SP		Ceramic 0.10 Z 16V
15	9965 000 00256	Sheet, button	C056	
			C057	Elect 4.7 U M 25V Ceramic 5600P K 50V
CHASS	SIS PARTS ELECT	RICAL	C058	
OHAO.			C059	Ceramic 0.1U Z 16V
19	9965 000 00257	Cord, 2P-130 mm, SP	C060	Ceramic 0.1 J Z 16V
20	9965 000 00258	Cord, welding, IR SENSOR	C061	Ceramic 0.1U Z 16V
		Display module, LQ6BW506	C062	Ceramic 0.1U Z 16V
LCD1	9965 000 00242		C063	Ceramic 1 J Z 16V
SP1	9965 000 00261	Speaker, 8	C064	Ceramic 0.1U Z 16V
FPC1	9965 000 00263	FPC		
			C065	Ceramic 1∪ Z 16V
MAIN	PWB ELECTRICAL	_	C066	Elect 10U M 16V
				Ceramic 1 1 Z 16V
PCB1	9965 000 00264	Main PWB complete	C067	
NTSC:	9965 000 00706	Main PWB complete	C068	
C001		Elect 10 U M 16V	C069	Ceramic 0.1 J Z 16V
C001		Ceramic 1 U Z 16V	C070	Ceramic 0.1 J Z 16V
		Ceramic 1 U Z 16V	C071	Ceramic 0.10 Z 16V
C003			C072	Elect 100 M 16V
C004		Ceramic 1 U Z 16V	C073	Elect 47
C005		Elect 10 U M 16V	C074	Elect 100 J ► 16V
C006		Ceramic 0.01 U K 50V	· · ·	
C007		Ceramic 0.1 U Z 16V	C076	Elect 10 10 16V
C008		Elect 100 U M 16V	23.3	

C081		Not present	C149	Ceramic 68P J 50V
NTSC:		Ceramic 1 U Z 10V	C150	Ceramic 0.01 U K 50V
			C151	Elect 10 U M 16V
C082		Not present		
NTSC:		Ceramic 1 U Z 10V	C152	Ceramic 0.01 U K 50V
C083		Not present	C153	Elect 33 U M 25V
NTSC:		Ceramic 1 U Z 10V	C154	Ceramic 0.01 U K 50V
C087		Elect 100 U M 16V	C160	Elect 100 U M 16V
C088		OS-solid 22 U M 20V	C162	
C089		OS-solid 68 U M 20V	C163	Elect 330 U M 6.3V
C090		Elect 330 U M 16V	C165	Elect 100 U M 16V
C091		Elect 330 U M 16V	C166	OS-solid 150 U M 6.3V
		Ceramic 0.01 U K 50V	C167	Ceramic 1000P K 50V
C092		Ceramic 0.01 0 K 50V	C107	Ceramic 10001 R 50V
		- W	0400	O
C093		Pen-fil 0.22 U J 50V	C168	Ceramic 100P J 50V
C095		OS-solid 22 U M 20V	C169	Ceramic 0.047 U K 16V
C096		Elect 100 U M 16V	C170	Elect 330 U M 6.3V
C098		Ceramic 0.047 U K 16V	C174	Ceramic 0.01 UK 50V
C099		Elect 100 U M 16V	C175	Ceramic 0.1 U Z 16V
C101		Ceramic 4700P K 50V	C177	Ceramic 1 U Z 16V
C104		Elect 33 U M 25V	C178	Ceramic 0.01 UK50V
C105		Ceramic 330P J 50V	C179	Ceramic 0.1 U Z 16V
			C180	Ceramic 5600P K 50V
C106		Elect 100 U M 16V		
C107		Ceramic 82P J 50V	C181	Ceramic 1 U Z 16V
C108		OS-solid 10 U M 16V	C182	Elect 1 U M 50V
NTSC:		Elect 100 U M 16V	C183	Ceramic 1 U Z 16V
C109		Elect 100 U M 16V	C184	
C110	9965 000 00265	Elect 2200 U M 25V	C185	Ceramic 1000P K 50V
NTSC:	9965 000 00265	Elect 3300 U M 16V	C187	Elect 4.7 U M 25V
C111		Elect 33 U M 25V	C188	Elect 4.7 U M 25V
C113		Ceramic 47P J 50V	C189	Elect 22 U M 10V
C114		Ceramic 0.1 U Z 16V	C190	Elect 1 U M 50V
C120		Elect 100 U M 16V	C191	Elect 100 U M 16V
C121		Elect 33 U M 25V	C193	Ceramic 1000P K 50V
NTSC:		Elect 100 U M 16V	NTSC:	Ceramic 1000P K 50V
C122		Elect 33 U M 25V	C194	Ceramic 1000P K 50V
NTSC:		Elect 100 U M 16V	NTSC:	Ceramic 1000P K 50V
C123		Ceramic 0.1 U Z 16V	C195	Elect 22 U M 16V
C124		Ceramic 0.047 U K 16V	C199	Elect 100 U M 16V
			C200	
C125		Elect 100 U M 16V		
C126		Elect 100 U M 16V	NTSC:	Elect 22 U M 10V
C127		Elect 100 U M 16V	C201	Elect 1 U M 50V
C128		Ceramic 1 U Z 16V	C202	Elect 10 U M 16V
		Elect 22 U M 6.3V	C203	Ceramic 100P J 50V
C129		Elect 22 0 W 6.3V	0203	Ceramic 1001 3 30 V
				0
C130		Elect 10 U M 16V	C204	Ceramic 0.01 UK50V
C132		Ceramic 0.01 U K 50V	C205	Elect 4.7 U M 25V
NTSC:		Ceramic 4700P K 50V	C206	Ceramic 1000P K 50V
C133		Elect 10 U M 16V	NTSC:	Ceramic 1000P K 50V
C134		Ceramic 120P J 50V	C207	Elect 10 U M 16V
C135		Ceramic 0.01 U K 50V	C208	Ceramic 100P J 50V
C136		Ceramic 0.01 U K 50V	C209	Ceramic 0.1 U Z 16V
C137		Ceramic 1000P K 50V	C212	Ceramic 1000P K 50V
C138		Ceramic 120P J 50V	C217	OS-solid 10 U M 20V
	•			
C139		Ceramic 120P J 50V	C218	Not present
C140		Elect 100 U M 16V	NTSC:	Elect 10 U M 16V
C141		Ceramic 1000P K 50V	C219	Ceramic 0.1 U Z 16V
NTSC:		Ceramic 1000P K 50V	C230	Ceramic 0.015 U K 50V
C142		Ceramic 1000P K 50V	CP1 9965 000 00266	•
NTSC:		Ceramic 1000P K 50V	CP3 9965 000 00267	Socket, 4P (plug)
C143		Ceramic 0.1 U Z 16V	CP4 9965 000 00259	Socket, 24P
C144		Elect 100 U M 16V	CP6 9965 000 00260	· ·
				-
C145				•
NTSC:		Ceramic 1000P K 50V	CT1 9965 000 00277	
C146		Ceramic 0.1 U Z 16V	NTSC: 9965 000 00707	Trimmer, 50P
C147		Ceramic 120P J 50V	D01 9965 000 00278	D16DE SB05-05CP
C148			D05 9965 000 00278	
		Ceramic Toode K Suv		
NTSC:		Ceramic 1000P K 50V Ceramic 1000P K 50V	D06 9965 000 00278	

D08	9965 000 00279	D16DE MA142K	Q11	9965 000 00313	TR 2SD1802-T
D09		DCA010	Q12	9965 000 00313	TR 2SD1802-T
NTSC:		Not present	Q17	9965 000 00314	TR 2SB1120-G
-	1000 100 00000		Q18	9965 000 00310	TR 2SD1819A-R
D10	4822 130 83023	D16DE SC802-04			
D12	4822 130 82557	D16DE DCC010	Q19	9965 000 00315	TR DTC343TK
D14	4822 130 82557	D16DE DCC010	Q20	9965 000 00316	TR TM3111
D15	9965 000 00280	D16DE 1SS119-14	Q21	9965 000 00316	TR TM3111
NTSC:	••••	Not present	Q22	9965 000 00314	TR 2SB1120-G
	0005 000 00001	Zener D16DE 02CZ5.6-X	Q23	9965 000 00310	TR 2SD1819A-R
DZ01	9965 000 00281				TR DTA143X U
DZ02	4822 130 83632	Zener D16DE DZD5.IY	Q24	9965 000 00317	
DZ03	9965 000 00282	Zener D16DE 02CZ8.2-Y	Q25	9965 000 00317	TR DTA143X U
DZ06	4822 130 83632	Zener D16DE DZD5.IY	Q26	9965 000 00318	TR 2SB709A-R
DZ07	4822 130 83632	Zener D16DE DZD5.IY	Q27	9965 000 00317	TR DTA143X U
			Q28	9965 000 00319	TR DTC114Y UA
DZ08	4822 130 83632	Zener D16 DE DZD5.IY			
DZ09	9965 000 00283	Zener D16 DE PTZ18B	Q29	9965 000 00318	TR 2SB7O9A-R
DZ10	9965 000 00283	Zener D16 DE PTZ18B	Q30	9965 000 00310	TR 2SDI819A-R
DZ12	4822 130 83632	Zener D16 DE DZD5.IY	R001		MT-glaze 10K JA 1/16W
F1	9965 000 00284	Fuse 125V 2.5A	R002		MT-glaze 15K JA 1/16W
		IC LA6393M	R004		MT-glaze 2.2K JA 1/16W
IC01	4822 209 16794				MT-glaze 10K JA 1/16W
IC02	9965 000 00285	IC TC4W53F U	R006		
IC03	9965 000 00286	IC S-80832AL UP-EAW-T2	R007		MT-glaze 15K JA 1/16W
IC04	9965 000 00287	IC X24C01S-2.7	R008		MT-glaze 15K JA 1/16W
IC05	9965 000 00288	OTP M37212EFFP	R009		MT-glaze 15K JA 1/16W
	9965 000 00289	IC M62429FP	R012		MT-glaze 47K JA 1/16W
IC06					MT-glaze 3.9K JA 1/16W
IC07	9965 000 00290	IC M52045FP	R013		
NTSC:	9965 000 00708	IC M52042FP-601C	R014		MT-glaze 2.2K JA 1/16W
IC08	9965 000 00291	IC MM1231XFBE	R015		MT-glaze 560 JA 1/10W
IC09	9965 000 00285	IC TC4W53F U	NTSC:		MT-glaze 2.2K JA 1/16W
IC10	9965 000 00292	IC TC7S00F U	R016		MT-glaze 12JA 1/10W
		IC NJM4565M-B	R017		MT-glaze 470K JA 1/16W
IC12	9965 000 00293				MT-glaze 150K JA 1/16W
IC13	9965 000 00294	IC TC74VHC123AFT-(EL)	R018		
IC14	9965 000 00295	IC IR3Y26A1	R019		MT-glaze 560 JA 1/16W
IC15	9965 000 00296	IC S-8054ALB-LM	R020		MT-glaze 10K JA 1/16W
IC20	9965 000 00297	IC AN7141-(NT)	R021		MT-glaze 5.6K JA 1/16W
IC21	9965 000 00298	IC M62354FP	R022		MT-glaze 10K JA 1/16W
			R023		MT-glaze 10 JA 1/16W
IC22	9965 000 00299	IC MC34063AM			MT-glaze 680 JA 1/16W
IC24	9965 000 00300	IC SB3012AP	R024		
IC27	9965 000 00292	IC TC7S00F U	R025		MT-glaze 39 JA 1/10W
IC28	9965 000 00299	IC MC34063AM	R026		MT-glaze 33 JA 1/16W
IC29	9965 000 00301	IC TA75S393F	R027		MT-glaze 470 JA 1/16W
IC30	9965 000 00302	IC BA3121F	R029		MT-glaze 820 JA 1/16W
IC31	9965 000 00302	IC BA3121F	NTSC:		MT-glaze 2.7K JA 1/16W
1031	9903 000 00302	IO DAGIZII	14100.		mr glazo zmaor
		10.11.11.10.0001.1	Dogo		MT-glaze 0.000 ZA 1/16W
IC32	9965 000 00303	IC NJM2229M	R030		
IC33	9965 000 00291	IC MM1231XFBE	R032		MT-glaze 15K JA 1/16W
JK1	9965 000 00304	Jack	R033		MT-glaze 10K JA 1/16W
L01	9965 000 00305	Inductor 33 UH K	R035		MT-glaze 10 JA 1/10W
L02	9965 000 00306	Inductor 100 UH K	R036		MT-glaze 1K JA 1/16W
L02	9965 000 00307	Inductor 270 UH N	R037		MT-glaze 10K JA 1/16W
					MT-glaze 1K JA 1/16W
L07	9965 000 00307	Inductor 270 UH N	R038		
L08	9965 000 00307	Inductor 270 UH N	R039		MT-glaze 5.6K JA 1/16W
L09	9965 000 00308	Inductor 22 UH M	R040		MT-glaze 1K JA 1/16W
L10	9965 000 00307	Inductor 270 UH N	R041		MT-glaze 10) J A 1/10W
L11	9965 000 00309	Inductor, ferrite	R042		MT-glaze 47(JA 1/16W
			R043		MT-glaze 15K JA 1/16W
L12	9965 000 00309	Inductor, ferrite			MT-glaze 10K JA 1/16W
L14	9965 000 00309	Inductor, ferrite	R044		
L15	9965 000 00308	Inductor 22 UH M	R045		MT-glaze 10K JA 1/16W
L16	9965 000 00307	Inductor 270 UH N	R046		MT-glaze 15K JA 1/16W
Q01	9965 000 00310	TR 2SD1819A-R	R047		MT-glaze 47K JA 1/16W
Q02	9965 000 00310	TR 2SD1819A-R	R048		MT-glaze 47K JA 1/16W
			R049		MT-glaze 2.2K JA 1/16W
Q03	4822 130 11358	TR 2SA1622-6			MT clare 2 % IA 1/16\M
Q04	4822 130 11358	TR 2SA1622-6	R050		MT-glaze 2.2K JA 1/16W
Q05	4822 130 11358	TR 2SA1622-6	R051		MT-glaze 15K JA 1/16W
Q06	9965 000 00311	TR 2SC2412K-R	R052		MT-glaze 15K JA 1/16W
Q09	9965 000 00310	TR 2SDI8I9A-R	R053		MT-glaze 0.0(0 ZA 1/16W
Q10	9965 000 00312	TR 2SA1252-D6	R054		MT-glaze 10K JA 1/16W
Je i U	5555 500 50012	= 5			3

R055	MT-glaze 4.7K JA 1/16W	R137	MT-glaze 0.33 JA IW
R056	MT-glaze 1K JA 1/16W	R140	MT-glaze 10K JA 1/16W
R057	MT-glaze 100 JA 1/16W	R141	MT-glaze 75 JA 1/16W
	•	R142	MT-glaze 0.000 ZA 1/16W
R058	MT-glaze 100 JA 1/16W		
R059	MT-glaze 100 JA 1/16W	R144	MT-glaze 39 JA 1/I0W
R060	MT-glaze 47K JA 1/16W	R145	MT-glaze 10 JA 1/10W
R061	MT-glaze 15K JA 1/16W	R150	MT-glaze 0.000 ZA 1/16W
R062	MT-glaze 47K JA 1/16W	R151	MT-glaze 0.000 ZA 1/16W
R063		R153	MT-glaze 2.2K JA 1/16W
	MT-glaze 15K JA 1/16W		
R064	MT-glaze 47K JA 1/16W	R154	MT-glaze 560 JA 1/10W
R065	MT-glaze 15K JA 1/16W	R155	MT-glaze 12 JA 1/10W
	•		
R066	MT-glaze 47K JA 1/16W	R156	MT-glaze 12 JA 1/10W
DOGZ	MT-glaze 15K JA 1/16W	R157	MT-glaze 2.7K JA 1/16W
R067			
R068	MT-glaze 47K JA 1/16W	R158	MT-glaze 2.7K JA 1/16W
R069	MT-glaze 15K JA 1/16W	R159	MT-glaze 10K JA 1/16W
	•		•
R070	MT-glaze 47K JA 1/16W	R165	MT-glaze 0.33 JA 1W
R071	MT-glaze 15K JA 1/16W	NTSC:	MT-glaze 5.6 JA 1W
	-	R166	MT-glaze 0.000 ZA 1/16W
R072	MT-glaze 12K JA 1/16W		
R073	MT-glaze 39 JA 1/10W	NTSC:	Not present
R074	MT-glaze 15K JA 1/16W	R167	MT-glaze 27K JA 1/16W
R075	MT-glaze 47K JA 1/16W	NTSC:	Not present
R076	MT-glaze 15K JA 1/16W	R168	MT-glaze 18K JA 1/16W
11070	9		3
R077	MT-glaze 47K JA 1/16W	NTSC:	Not present
R078	MT-glaze 100 JA 1/16W	R169	Not present
R079	MT-glaze 00K JA 1/16W	NTSC:	MT-glaze 0.000 ZA 1/16W
R080	MT-glaze 100K JA 1/16W	R170	MT-glaze 75 JA 1/16W
		R171	MT-glaze 270 JA 1/16W
R081	MT-glaze 100K JA 1/16W		
R082	MT-glaze 100K JA 1/16W	R173	MT-glaze 0.33 JA IW
R083	MT-glaze 1K JA 1/10W	R174	MT-glaze 1K JA 1/16W
			9
R084	MT-glaze 470 JA 1/16W	R176	MT-glaze 100K JA 1/16W
R085	MT-glaze 100 JA 1/16W	R177	MT-glaze 470 JA 1/8W
		R178	MT-glaze 10 JA 1/16W
R086	MT-glaze 100 JA 1/16W	N1/0	WIT-glaze TO SA 1/TOW
R087	MT-glaze 100 JA 1/16W	R179	MT-glaze 100K JA 1/16W
R088	MT-glaze 47K JA 1/16W	R180	MT-glaze 3.9K JA 1/16W
R089	MT-glaze 47K JA 1/16W	R181	MT-glaze 47K JA 1/16W
R090	MT-glaze 47K JA 1/16W	R182	MT-glaze 100 JA 1/16W
	· ·		
R095	MT-glaze 1.5K JA 1/16W	R183	MT-glaze 100 JA 1/16W
R096	MT-glaze 470 JA 1/10W	R185	MT-glaze 100 JA 1/16W
			9
R097	MT-glaze 3.3K JA 1/16W	R186	MT-glaze 100 JA 1/16W
R098	MT-glaze 470 JA 1/10W	R189	MT-glaze 100K JA 1/16W
	•	R190	Not present
R102	MT-glaze 100K JA 1/16W		
R104	MT-glaze 470K JA 1/16W	NTSC:	MT-glaze 27K JA 1/16W
D400	ATT -1 471/ 14 4/4014/	D404	Makaaaaa
R106	MT-glaze 47K JA 1/16W	R191	Not present
R107	MT-glaze 1K JA 1/10W	NTSC:	MT-glaze 27K JA 1/16W
	T		
R108	MT-glaze 10K JA 1/16W	R198	•
R109	MT-glaze 0.022 JA IW	R199	MT-glaze 100 JA 1/16W
NTSC:	MT-glaze 0.043 JA IW	R200	MT-glaze 100 JA 1/16W
			9
R110	MT-glaze 75 JA 1/16W	R201	MT-glaze 12 JA 1/10W
R111	MT-glaze 2.7M JA 1/16W	R202	MT-glaze 1.8K JA 1/16W
R112		R203	MT-glaze 4.7K JA 1/16W
R117	MT-glaze 100 JA 1/16W	R204	MT-glaze 10K JA 1/16W
R121	MT-glaze 100K JA 1/16W	R205	MT-glaze 3.3K JA 1/16W
11121	WIT-GIAZO TOOK OA 1/10W	11200	Wir glazo Cloreon in total
R122		R206	MT-glaze 1M JA 1/16W
R122	MT-glaze 470 JA 1/2W	R206	
R124	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W	R207	MT-glaze 47K JA 1/16W
	MT-glaze 470 JA 1/2W		
R124 R125	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W	R207 R209	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W
R124 R125 R126	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W	R207 R209 R210	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W
R124 R125	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W	R207 R209	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W
R124 R125 R126 R127	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W	R207 R209 R210 R211	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W
R124 R125 R126 R127 R128	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W	R207 R209 R210 R211 R212	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W
R124 R125 R126 R127 R128 R129	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100K JA 1/16W	R207 R209 R210 R211 R212 R214	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W MT-glaze 10 JA 1/10W
R124 R125 R126 R127 R128	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W	R207 R209 R210 R211 R212	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W
R124 R125 R126 R127 R128 R129 R131	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100K JA 1/16W MT-glaze 1K JA 1/16W	R207 R209 R210 R211 R212 R214 R217	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W MT-glaze 10 JA 1/10W MT-glaze 2.2K JA 1/16W
R124 R125 R126 R127 R128 R129 R131	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100 JA 1/16W	R207 R209 R210 R211 R212 R214 R217 R218	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W MT-glaze 2.2K JA 1/16W MT-glaze 2.2K JA 1/16W MT-glaze 2.2K JA 1/16W
R124 R125 R126 R127 R128 R129 R131	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100K JA 1/16W MT-glaze 1K JA 1/16W	R207 R209 R210 R211 R212 R214 R217	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W MT-glaze 10 JA 1/10W MT-glaze 2.2K JA 1/16W
R124 R125 R126 R127 R128 R129 R131	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100 JA 1/16W	R207 R209 R210 R211 R212 R214 R217 R218	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W MT-glaze 2.2K JA 1/16W MT-glaze 2.2K JA 1/16W MT-glaze 2.2K JA 1/16W
R124 R125 R126 R127 R128 R129 R131 R132 R133	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100 JA 1/16W MT-glaze 100 JA 1/16W	R207 R209 R210 R211 R212 R214 R217 R218 R221	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W MT-glaze 2.2K JA 1/16W MT-glaze 2.2K JA 1/16W MT-glaze 100K JA 1/16W
R124 R125 R126 R127 R128 R129 R131 R132 R133	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100 JA 1/16W MT-glaze 100 JA 1/16W MT-glaze 0.000 ZA 1/16W	R207 R209 R210 R211 R212 R214 R217 R218 R221	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W MT-glaze 10 JA 1/16W MT-glaze 2.2K JA 1/16W MT-glaze 100K JA 1/16W MT-glaze 100K JA 1/16W
R124 R125 R126 R127 R128 R129 R131 R132 R133	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100 JA 1/16W MT-glaze 100 JA 1/16W	R207 R209 R210 R211 R212 R214 R217 R218 R221	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W MT-glaze 2.2K JA 1/16W MT-glaze 2.2K JA 1/16W MT-glaze 100K JA 1/16W
R124 R125 R126 R127 R128 R129 R131 R132 R133	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100 JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 0.000 ZA 1/16W	R207 R209 R210 R211 R212 R214 R217 R218 R221	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W MT-glaze 10 JA 1/16W MT-glaze 2.2K JA 1/16W MT-glaze 2.2K JA 1/16W MT-glaze 100K JA 1/16W MT-glaze 100K JA 1/16W MT-glaze 4.7K JA 1/16W
R124 R125 R126 R127 R128 R129 R131 R132 R133	MT-glaze 470 JA 1/2W MT-glaze 2.2 JA 1/10W MT-glaze 5.6K JA 1/16W MT-glaze 0.000 ZA 1/16W MT-glaze 1.5K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100K JA 1/16W MT-glaze 1K JA 1/16W MT-glaze 100 JA 1/16W MT-glaze 100 JA 1/16W MT-glaze 0.000 ZA 1/16W	R207 R209 R210 R211 R212 R214 R217 R218 R221	MT-glaze 47K JA 1/16W MT-glaze 150K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 22K JA 1/10W MT-glaze 10 JA 1/16W MT-glaze 2.2K JA 1/16W MT-glaze 100K JA 1/16W MT-glaze 100K JA 1/16W

R225 R226 R227 R228 R229 R230 R231 R232 R233 R234 R235 R237		MT-glaze 10K JA 1/16W MT-glaze 15 JA 1/10W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 470 JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 10K JA 1/16W MT-glaze 33K JA 1/16W MT-glaze 680K JA 1/16W MT-glaze 82 JA 1/10W MT-glaze 1K JA 1/16W
R238 R239		MT-glaze 100K JA 1/16W MT-glaze 100K JA 1/16W
S1	9965 000 00320	Switch, tact, 1P-1T
S2	9965 000 00320	Switch, tact, 1P-1T
S3	9965 000 00320	Switch, tact, 1P-1T
SVR01	9965 000 00321	Potentiometer, 33K
SVR02	9965 000 00321	Potentiometer, 33K
SVR03	9965 000 00321	Potentiometer, 33K
SVR04	9965 000 00321	Potentiometer, 33K
SVR05	9965 000 00321	Potentiometer, SSK
SVR06	9965 000 00321	Potentiometer, 33K
SVR07	9965 000 00321	Potentiometer, 33K
SVR08	9965 000 00321	Potentiometer, 33K
SVR09	9965 000 00321	Potentiometer, 33K
SVR10	9965 000 00321	Potentiometer, 33K
SVR11	9965 000 00321	Potentiometer, 33K
T1	9965 000 00333	Inverter trans
T2	4822 157 11124	Inductor, SK, 5.00MH
TH101	9965 000 00334	TH
X2	9965 000 00335	NTCCS20123BH102KCTH1 Resonator, XTAL, 8.000MHz
X4	9965 000 00342	Resonator, XTAL, 4.433619 MHz
NTSC:	9965 000 00709	Resonator, XTAL, 3.579545 MHz

MAIN PWB OTHERS

Bracket-E, Socket Sheet Protector

SENSOR PWB

PCB2 C280	9965 000 00348	Sensor PWB complete Ceramic 0.1 U Z 16V
C284		Elect 100 U M 16V
CP5	9965 000 00267	Socket, 4P(plug)
IC201	9965 000 00349	IC TC75S51F
P201	9965 000 00350	Photo diode TPS703
P202	9965 000 00343	Sensor SBX8035D
Q201	9965 000 00319	TR DTC114 Y UA
Q202	9965 000 00319	TR DTC114Y UA
R280		MT-glaze 820K JA 1/16W
R283		MT-glaze 10 JA 1/10W
R285		MT-glaze 10 JA 1/10W
R286		MT-glaze 4.7K JA 1/16W